CO-SIMULATION VIA BOUNDARY SCAN INTERFACE

ABSTRACT

Method and apparatus for interfacing a high-level modeling system (HLMS) with a reconfigurable hardware platform for co-simulation. In one embodiment a boundary-scan interface is coupled to the HLMS and is configured to translate HLMS-issued commands to signals generally compliant with a boundary-scan protocol, and translate signals generally compliant with a boundary-scan protocol to data compatible with the HLMS. A translator and a wrapper are implemented for configuration of the hardware platform. The translator translates between signals that generally compliant with the boundary-scan protocol and signals that are compliant with a second protocol. A component to be co-simulated is instantiated within the wrapper, and the wrapper transfers signals between the translator and the component.